

# Python: module cdms.slabinterface

## *cdms.slabinterface*

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Read part of the old cu slab interface implemented over CDMS

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### Classes

#### Slab

##### class **Slab**

**Slab** is the cu api  
This is an abstract class to inherit in AbstractVariable  
About axes:  
weight and bounds attributes always set but may be None  
if bounds are None, getdimattribute returns result of querying the  
axis.

Methods defined here:

**\_\_init\_\_(self)**

**createattribute(self, name, value)**

Create an attribute and set its name to value.

**deleteattribute(self, name)**

Delete the named attribute.

**getattribute(self, name)**

Get the attribute name.

**getdimattribute(self, dim, field)**

Get the attribute named field from the dim'th dimension.  
For bounds returns the old cu one-dimensional version.

**info(self, flag=None, device=None)**

Write info about slab; include dimension values and weights if

```
listall(self, all=None)
    Get list of info about this slab.

listattributes(self)
    Return a list of attribute names.

listdimattributes(self, dim)
    List the legal axis field names.

listdimnames(self)
    Return a list of the names of the dimensions.

setattribute(self, name, value)
    Set the attribute name to value.

showdim(self)
    Show the dimension attributes and values.
```

---

Data and other attributes defined here:

```
std_slab_atts = ['filename', 'missing_value', 'comments', 'grid_name', 'grid_type', 'time_statistic',
'long_name', 'units']
```

## Functions

```
cdms_bounds2cu_bounds(b)
    Bounds are len(v) by 2 in cdms but len(v)+1 in cu
```

## Data

```
std_axis_attributes = ['name', 'units', 'length', 'values', 'bounds']
```